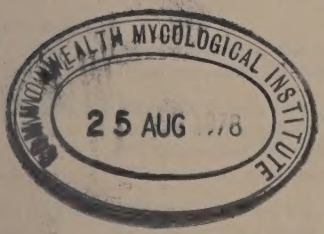
Contents and Subject Index

Pflanzenschutz-Nachrichten Bayer

Volume 1976



Contents

Volume 1976

	Page
Alkämper, J.: Influence of weed infestation on effect of fertilizer dressings	191
Buchenauer, H.: Studies on the systemic activity of ®Bayleton (triadimefon) and its effect against certain fungal diseases of cereals	266
Buchenauer, H.: Mechanism of action of ®Bayleton (triadimefon) in *Ustilago avenae*	281
Hoffmann, H.: On the probability of discovering new insecticidal compounds Acyl formula and research prospects	46
Hoffmann, H.: Use of transformations in the evaluation of pesticide trials	181
Homeyer, B.: Development of ®Croneton as a root-systemic aphicide	254
Kolbe, W.: Studies on the fungicidal activity of ®Bayleton spray applications in cereals and their effect on yields, with special consideration to mildew control and crop tolerance	310
Siebert, R.: New approach to the control of rust diseases of cereals with ®Bayleton	303
Steffens, W., and Wieneke, J.: Studies on the uptake, metabolism and degradation of ^{14}C-labelled ®Gusathion in kidney beans I. Extraction, fractionation and ^{14}C balance	1
Steffens, W., and Wieneke, J.: Studies on the uptake, metabolism and degradation of ^{14}C-labelled ®Gusathion A in kidney beans	35
Unterstenhöfer, G.: The basic principles of crop protection field trials	83
Wagner, K.: Method for the gas-chromatographic determination of ®Oftanol residues in plants, soil and water	67

Page

Wagner, K., and Frehse, H.:
Method for the determination of residues
of ®Folimat insecticide/acaricide 54

Wallnöfer, P., Söhlemann, F., and Oehlmann, L.:
Metabolism of fenthion by *Rhizopus japonicus* 236

Wieneke, J., and Steffens, W.:
Studies on the uptake, metabolism and degradation
of ^{14}C-labelled ®Gusathion in kidney beans
II. Separation and identification of metabolites 13

Subject Index 1976

A

Abbott, formula 165, 166
Acaricide resistance 112
Achillea millefolium 208
Achillea ptarmica 208
Acholeplasma laidlawii 296
Acyl formula and research prospects 46—53
Adjacent effect 93—95
Adoxophyes reticulana 128, 134
Aegopodium podagraria 210, 212
Agropyron repens 208—210, 212
Aldicarb 258—260, 263
Alopecurus myosuroides 196, 209
Andropogon sp. 191
Anthonomus pomorum 128, 147
Anthriscus sylvestris 208
Apera spica-venti 196
Aphis fabae 120, 157, 159, 255, 258, 261, 263
Aphis gossypii 261—263
Aphis pomi 128
Argemone mexicana 201
Argyroploce variegana 128
Artemisia vulgaris 208
Aspergillus fumigatus 295
Aspergillus niger 295
Athalia rosae 138
Atriplex hortensis 209, 213
Atriplex sp. 208, 209
Avena fatua 200, 205, 209, 211, 219
Avena ludoviciana 200, 219
Azinphos-ethyl 35—45
Azinphos-methyl 1—17, 18—34, 36, 37, 40, 43, 44

B

Bait attractant traps 131—133
Barbarea vulgaris 208
®Bayleton 266—280, 281—302, 303—309, 310—334
Bayleton, mechanism of action of 281—302
Beating method 126—128
Beet yellows 159
Benodanil 304
Benomyl 267, 269—274, 278
Bis-phenyl-(3-trifluoromethyl-phenyl)-1-(1,2,4-triazolyl)-methane 295
Block design, randomized 98
Blocks, factorial experiment in randomized 99
Bombycol 134
Bombyx mori 134
Brevicoryne brassicae 166
S-n-butyl-S'-p-tert.-butylbenzyl-N-3-pyridylimido-dithiocarbonate 295

C

Calotropis procera 201
Capitophorus horni 262
Capsicum annuum 159
Carassius auratus 312
Carpocapsa pomonella 110, 120, 128, 131, 133—135, 140, 141, 150
Centaurea cyanus 210—212
Cercospora apii 157
Cercospora beticola 170
Cercospora sp. 170
Cercosporella herpotrichoides 139, 269, 273, 274, 278
Cercosporella sp. 327
Cereals, control of rust diseases with Bayleton 303—309
Cereals, effect of Bayleton against fungal diseases of 266—280
Cereals, mildew control with Bayleton in 310—334
Ceuthorrhynchus assimilis 126
Ceuthorrhynchus napi 134
Cheimatobia brumata 128
Chenopodium album 202, 207—209, 213
1-(4-chloro-phenoxy)-3,3-dimethyl-1-(1H-1,2,4-triazol-1-yl)-2-butanone 266, 281, 311
Chrysanthemum leucanthemum 208, 211
Cirsium arvense 208, 210, 212
Cladosporium cucumerinum 268, 272, 277, 278, 296
Claviceps purpurea 281

Clysia ambiguella 120, 132
Colour traps 134
Contarinia nasturtii 136, 140
Contarinia tritici 123, 137, 151
Coturnix coturnix japonica 312
®Croneton 254—265
Crop protection field trials 83—180
Crop tolerance, Bayleton 310—334
®Curaterr 261
Cynara scolymus 262
Cynodon dactylon 201
Cyperus difformis 205, 206
Cyperus rotundus 201

D

Dactyloctenium aegyptium 201
Dasyneura brassicae 138
Datura stramonium 159
Dichlorodiphenyltrichloroethane 94
O,O-diethyl-S-[(4-oxo-3H-1,2,3-benzotriazine-3-yl)-methyl]-dithiophosphate 35
Digitaria sanguinalis 196, 197
Dimethoate 54—66
O,O-dimethyl-S-(N-methyl-carbamoylmethyl)-phosphoro-thioate 54
O,O-dimethyl-O-(4-methyl-mercapto-3-methylphenyl)-thiophosphate 236
O,O-dimethyl-S-[(4-oxo-3H-1,2,3-bentzotriazine-3-yl)-methyl]-dithiophosphate 1
Disparlure 134
®Disyston 256, 257, 259, 260, 262
Dodemorph 277
Doralis fabae 102, 103
Doralis frangulae 119
Drosophila melanogaster 47
Dysaphis malifoliae 128

E

®E 605 99, 134
Echinochloa colonum 191, 202, 203, 209, 213, 214, 219—233
Echinochloa crus-galli 195—197
Edge effect 92
Effectiveness, computation of the level of 163—171
Endoconidium temulentum = *Gloeotinia temulenta*
Epilobium angustifolium 208, 210
®Eradex 99
Erannis defoliaria 128
Erysiphe graminis 310
Erysiphe graminis f. sp. *avenae* 311
Erysiphe graminis f. sp. *hordei* 267—271, 275—278, 311
Erysiphe graminis f. sp. *secalis* 311
Erysiphe graminis f. sp. *tritici* 311
Erysiphe polygoni 278
Ethiofencarb 254, 263
O-ethyl-O-(2-isopropoxycarbonyl) phenyl isopropylphosphor-amidothioate 67
(2-ethyl-thiomethyl-phenyl)-N-methylcarbamate 254
Evonymus sp. 120

F

Fenthion 236—253
Fenthion, metabolism 236—253
Fenthion, metabolites of 248—250
Field trial results, reliability of 178—180
Field trials, crop protection 83—180
Fluotrimazole 267, 295
®Folimat 54—66
Folimat, determination of residues 54—66
Fusarium sp. 158

G

Galeopsis tetrahit 211, 212
Galium aparine 197
Gallus domesticus 312
Gloeotinia temulenta 281
Gossypium barbadense 201
Gossyplure 134
®Gusathion, uptake, metabolism and degradation in kidney beans 1—17, 18—34
Gusathion A, uptake, metabolism and degradation in kidney beans 35—45
Gusathion H 35
Gusathion K forte 35
Gusathion MS 1
Guthion 1
Gymnosporangium haraeanum 304, 305

H

Hemileia vastatrix 304, 305
Henderson and Tilton, formula 167

Heterodera sp. 125
Hoplocampa testudinea 128
Hylemyia brassicae 118, 132
Hylemyia sp. 132
Hyponomeuta malinellus 128

I

Insecticidal compounds, probability of discovering new 46—53
Insecticide resistance 112
Isofenphos 67—80

L

Laspeyresia funebrana 120, 151
Laspeyresia molesta 134
Latin square 98
Latin square, modified 99
®Lebaycid 236
Leptinotarsa decemlineata 109, 118
Light traps 133
Lolium perenne 209, 281
Lymantria dispar 134
Lyonetia clerkella 128

M

Macrosiphum rosae 263
Macrosiphum solanifolii 119, 260
Matricaria inodora 208
Mean and standard error 173
MEB 6447 311
Mechanism of action of Bayleton 281—302
Meligethes aeneus 109, 123, 166
Meloidogyne sp. 158
Melolontha sp. 124, 141
Metopolophium dirhodum 263
Microtus arvalis 132
Mildew control in cereals 310—334
Missing values 105
Monilia fructigena 295
Monochoria vaginalis 205, 206
Myzus persicae 47, 119, 137, 159 254—265

N

Nematodes, cyst nematodes 124, 125
Nematodes, free-living 125, 126
Neurospora crassa 295

O

®Oftanol 67—80
Oftanol, determination of residues 67—80
Omethoate 54—66
Organophosphates, insecticidal 46—53
Oscinella frit 134, 137
Oxycarboxin 304

P

Panonychus ulmi 121, 128
Papaver sp. 209, 211
Paratylenchus sp. 126
Pectinophora gossypiella 134
Pegomyia hyoscyami 119, 138
Peronospora = Plasmopara viticola
®Persulon 267, 274, 295
Pest infestation, examination of plants for 118—126
Phaedon cochleariae 47
Phakopsora ampelopsidis 304, 305
Phaseolus vulgaris 1—17, 36, 39, 40
Phorodon humuli 263
Phosphoric acid ester, insecticidal 46—53
Physalis angulata 159
Physalis floridana 159
Phytophthora infestans 93, 135, 139, 155
Phytophthora sp. 296
Planning of trials 88—117
Plant injuries 113
Plasmopara viticola 138, 153
Plutella maculipennis 47
Poa pratensis 277, 281
Polychrosis botrana 120, 132
Polygonum amphibium 208
Polygonum sp. 210
Pratylenchus sp. 126
Probability of discovering new insecticidal compounds 46—53
Propanil 191
Psylla costalis 128
Psylla mali 128, 151
Psylliodes chrysocephala 124
Puccinia chrysanthemi 304
Puccinia coronata 304
Puccinia graminis 304
Puccinia hordei 303, 304
Puccinia horiana 304
Puccinia pelargonii 304

Puccinia recondita 303, 304
Puccinia recondita f. sp. *tritici* 267, 268, 270, 275, 278, 281
Puccinia sp. 305
Puccinia stakmannii 304
Puccinia striiformis 281, 303—308
Pythium sp. 296

R

Ranunculus acer 208
Raphanus raphanistrum 210—212
Residue determination, Folimat 54—66
Residue determination, Oftanol 67—80
Resistance, determination of level of spider mite 162
Resistance to acaricides 112
Resistance to insecticides 112
Rhagoletis cerasi 118, 131, 136, 141, 152
Rhizopus japonicus 236—253
Rhopalosiphum insertum 128
Rotylenchus sp. 126
Rumex acetosella 208
Rumex domesticus 208
Rumex longifolius = *R. domesticus*
Rust control in cereals 303—309

S

S-1358 295
Sappaphis devecta 128
Schneider-Orelli, formula 165
Septoria nodorum 269
Septoria sp. 327
Serinus canarius 312
Setaria glauca 197
Setaria viridis 196, 197, 205
Sex attractants 134
Significance 174
Sinapis arvensis 197, 204, 209, 211, 215—217, 224-229
Sitodiplosis mosellana 123, 137, 151
Solanum demissum 159
Solanum melongena 262
Sonchus arvensis 208, 210
Sphaerotheca fuliginea 267, 271
Spilonota ocellana 128
Split-plot 100
Statistical methods 171—178, 181—185
Sticky traps 129—131
Suction traps 129
Sun and Shepard, formula 166
Sweep-net method 126, 127
®Systox 94, 99

T

Taraxacum officinale 208, 209
Tetranychus telarius 158
Thrips tabaci 166
TMTD 258
Townsend and Heuberger, formula 169
Triadimefon 266—280, 281—302, 304, 308, 311
Trial evaluation, methods of 147—161
Trials field, preparation of 105, 106
Trials, planning of 88—117
Triarimol 267, 269—271, 277, 294—296
®Tribunil 324, 325
Tridemorph 267, 274, 277
Triforine 267, 269—271, 277, 278, 295, 296
Tussilago farfara 207, 208, 210, 212
Tylenchorhynchus sp. 126

U

Urocystis agropyri 281
Uromyces appendiculatus 304
Uromyces pisi 304
Uromyces sp. 305
Urtica dioica 208
Ustilago avenae 281—302
Ustilago maydis 294—296
Ustilago striiformis 281
Ustilago tritici 104

V

Variance, analysis of 174—176, 181—185
Venturia inaequalis 110, 129, 139, 141, 153
Veronica hederaefolia 211, 219
Verticillium sp. 158
Viburnum sp. 120
Vicia faba 120, 157, 261

W

Weed infestation, influence on effect of fertilizer dressings 191—235

E. 191-738/842 252 Printed in Germany